WIRELESS CONTROLLER WITH GATEWAY

ABSTRACT

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Remote control of energy consumption is realized using a readily installable, flexible approach. According to an example embodiment of the present invention, a remote source communicates with a wireless controller for executing energy usage control. The remote source sends signals to the wireless controller via a gateway located near or, in one implementation, forming part of the wireless controller. In response to the signals, the wireless controller sets control settings for operating one or more of a variety of equipment types, such as a furnace, air conditioner, water heater or heat pump. With this approach, wired connections from the gateway to energyconsuming equipment do not necessarily need to be made in order to effect remote energy-consumption control. For instance, when used in connection with a controller wired to the energy-consuming equipment, the gateway need only communicate wirelessly with the controller and does not necessarily need to be coupled to the energyconsuming equipment. In addition, access to the energy-consuming equipment for establishing remote energy control is not necessary; rather, the remote energy control can be effected by accessing user-friendly locations, such as those where thermostats and other controllers are typically located.